



INTERNATIONAL SEARCH REPORT

International application No.
PCT/US98/27902

CLASSIFICATION OF SUBJECT MATTER

IPC(6) :C12N 15/63; A61K 48/00

US CL :435/320.1; 424/93.1

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/320.1; 424/93.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Please See Extra Sheet.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X - Y	ANDREANSKY, S. et al. Treatment of intracranial gliomas in immunocompetent mice using herpes simplex viruses that express murine interleukins. Gene Therapy. January 1998, Vol. 5, No. 1, pages 121-130, especially page 122.	1-4, 7-8, 12-26, 30-32 ----- 5-6, 9-11, 27-29
Y	US 5,585,096 A (MARTUZA et al) 17 December 1996, columns 7 and 11.	1-32
Y	MORIUCHI, S. et al. Enhanced Tumor Cell Killing in the Presence of Ganciclovir by Herpes Simplex Virus Type 1 Vector-directed Coexpression of Human Tumor Necrosis Factor-alpha and Herpes Simplex Virus Thymidine Kinase. Cancer Research. 15 December 1998, Vol. 58, pages 5731-5737, especially page 5732.	1-32

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
A document defining the general state of the art which is not considered to be of particular relevance	*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
B earlier document published on or after the international filing date	*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	*A* document member of the same patent family
O document referring to an oral disclosure, use, exhibition or other means	
P document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 05 MARCH 1999	Date of mailing of the international search report 24 MAR 1999
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B. FIELDS SEARCHED

Electronic data bases consulted (Name of data base and where practicable terms used):

DIALOG: Medline, Biosis, Embase, Scisearch, Cancerlit, Derwint WPLX, USPATFULL

search terms: herpes simplex virus, gamma 34.5, cytokine?, interleukin?, interferon, tumor necrosis factor, cancer, neoplas?, glioma, glioblastoma